

## CLAIMS

1. A fluororubber copolymer comprising  
40 to 70 % by mol of vinylidene fluoride units,  
5 10 to 25 % by mol of tetrafluoroethylene units, and  
20 to 35 % by mol of perfluoro(methyl vinyl) ether units, and  
containing 0.05 to 2 % by weight of iodine based on said copolymer;  
obtained by radical polymerization in the presence of a diiodine  
compound represented by the following formula (1):

10



(wherein R is a saturated fluorohydrocarbon group or a  
chlorofluorohydrocarbon group having 1 to 16 carbon atoms or a  
15 hydrocarbon group having 1 to 3 carbon atoms);

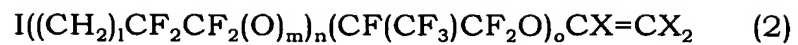
wherein after vulcanization,

TR70 in a TR test according to ASTM D1329 is -20 to -30°C, and  
the volume change ratio after immersing at 40°C × 70 hours in a mixture  
comprising fuel C:methanol = 15:85 weight ratio is 8 to 20 %.

20

2. The fluororubber copolymer of Claim 1, wherein said  
volume change ratio is 8 to 18 %.

3. The fluororubber copolymer of Claim 1, which further  
25 comprises at most 1.5 % by mol of an iodine-containing fluorinated vinyl  
ether unit represented by the following formula (2):



(wherein l is an integer of 0 to 2, m is an integer of 0 to 1, n is an integer of 0 to 5, o is an integer of 0 to 3, X are respectively independent fluorine  
5 or hydrogen).

4. The fluororubber copolymer of Claim 1, wherein said volume change ratio is 8 to 16 %.